

FOLIO

UNIVERSITY
OF ALBERTA

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HIS DUCKS (AND OTHER BIRDS) ARE ALWAYS IN ORDER

Wayne Roberts, aka 'the Bird Man,' educates and entertains schoolchildren and is a valued member of the Department of Biological Sciences team. Please see story, page 5, for more on the department's collections manager.

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Addictions taking heavy toll on province

New U of A program will help professionals keep abreast of policy, prevention and treatment issues

By Michael Robb

Drayton Valley is an oil town, and like most such towns it has its share of alcohol and drug abuse problems.

Laurie Brigden-Beaudoin teaches the integrated occupational program in HW Pickup Junior High School. Many of her students, she points out, have either been touched by someone with an alcohol or drug abuse problem, or they themselves suffer from an addiction.

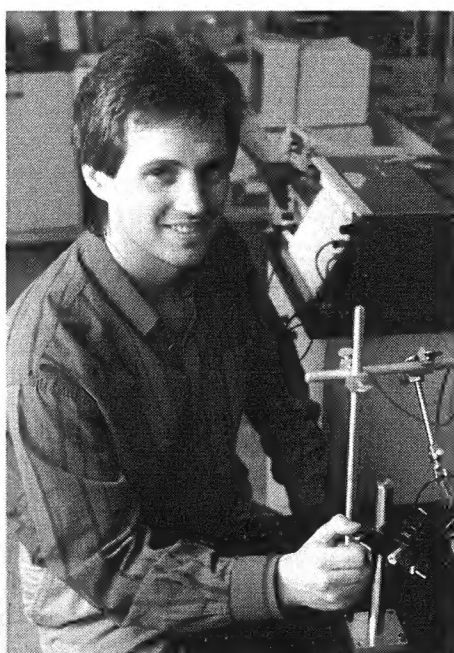
Last term, Brigden-Beaudoin and the school's vice-principal, Wayne Rosel, enrolled in a Faculty of Extension course, Basic Addictions Studies, a survey of theories, models, and perspectives about addiction and addictive behaviours, including substance and gambling addiction.

Continued on page 9

Chemistry professor awarded one of Canada's top research awards

Jed Harrison's 'lab-on-a-chip' work is capturing the attention of medical and industrial communities

By Michael Robb and Arnet Sheppard



Chemistry Professor and Steacie Memorial Fellowship recipient Jed Harrison

A University of Alberta chemistry professor has been awarded a 1996 EWR Steacie Memorial Fellowship—one of the most prestigious research awards in Canada.

Jed Harrison follows in the footsteps of two of his Chemistry Department colleagues, Norm Dovichi and Ole Hindsgaul, also recipients of the Fellowship.

Dr Harrison's work—the application of microchip technology to chemical analysis—is well known in the chemistry, medical and industrial worlds. That work involves chemical analyses on silicon chips. He uses enzyme-coated electrodes and laser detection devices with etched silicon chips to develop new and efficient methods for chemical analysis.

"Our lab and others around the world have demonstrated that we can drive chemical reactions and perform very efficient separations with these chips," says Dr Harrison. "What is just starting now is the application of these devices to realistic samples."

The applications are diverse. They include immunological tests for hormones

and drugs of abuse, DNA diagnostics, tests for soil and water contamination, and detection of biological warfare agents on the battlefield. The small size of the devices would make test kits easily portable, a key advantage for military and environmental applications. Chemical analyses can be done in seconds, virtually eliminating wait times for test results. And the "lab-on-a-chip" requires only a tiny volume of test material—about one billionth of a millilitre. The devices are capable of detecting picomolar concentrations. That's like one Tylenol tablet dissolved in 12 Olympic-sized swimming pools.

"This is the sort of thing people react to by saying 'Wow!' Well, I feel that way too," Dr Harrison says. "This field is opening up in front of our eyes. It is very exciting to push the limits in miniaturization, speed and detection."

The January 1994 issue of *Scientific American* states: "Two great revolutions of 20th century science, microelectronics and molecular biology, are joining forces to

produce a powerful analytical and manufacturing technology. In the works are centimetre-square-size versions of laboratory instruments that can determine the sequencing of bases in a single strand of DNA, analyze proteins, or detect human pathogens. This work is being done by Jed Harrison, a professor of chemistry at the University of Alberta."

His work is substantially backed by granting councils and industrial partners, such as the multinational corporation Ciba-Geigy.

A native of Vancouver, Dr Harrison earned his BSc in chemical physics at Simon Fraser University in 1980. He was the recipient of an NSERC postgraduate fellowship while doing graduate studies at the Massachusetts Institute of Technology. He earned his PhD there in 1984 and joined the U of A a short time later. He is the first recipient of the Faculty of Science Research Award, awarded to promising young scientists. ■

Arnet Sheppard is NSERC media officer.

Funding provided to develop cooperative partnerships with NRC

Federal government supplying \$25M for research

By Folio staff

A five-year agreement between the Natural Sciences and Engineering Research Council and the National Research Council will provide \$25 million in research support to the country's universities.

The funding will be provided by the federal government to university researchers to develop cooperative activities with NRC. "The participation of NRC Institutes and private sector organizations in these collaborations will significantly enhance the potential for major research achievements," said NSERC President Thomas Brzustowski.

Secretary of State for Science, Research and Development, Jon Gerrard, said, "This science and technology initiative which builds on strategic partnerships and better management of government-funded research provides a major contribution to jobs and growth."

In assessing proposals, NRC and NSERC will use the funding mechanisms already in place for the research partnerships program. Eligible activities could include research projects, chairs, networks, equipment or facilities, scholarships and fellowships. Researchers able to submit proposals may do so until 16 February 1996. Awards will be announced in March. ■

Sizing up the potential for partnerships

President Fraser visiting Mexico for 10 days

By Rae McDonald

President Rod Fraser is currently in Mexico on a 10-day visit (19-29 January) to further develop the University's existing linkages with educational institutions and to investigate the potential for new partnerships. Though the University of Alberta does not have a long and active history of association with its Mexican counterparts, the impetus of the North American Free Trade Agreement has led to new support programs for academic and student mobility, and to increasing interest in forging productive linkages.

Accompanying Dr Fraser on this visit are Judith Fraser and Dr Brian Stevenson, a visiting professor in the Faculty of Business from ITAM University in Mexico City. The U of A and ITAM sponsored a major conference last June on building business partnerships between Mexico and Western Canada.

The visit to Mexico includes meetings at universities in Mexico City, Monterrey and Guadalajara, and the signing of a general agreement with the Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM). During his visit Dr Fraser will make presentations to business and industry leaders to seek further support for the University's activities in Mexico.

University of Alberta students have been enjoying the opportunities afforded by the student exchange agreements that are in place with several Mexican institutions. An innovative AIESEC (Association International des Etudiants en Sciences Economiques et Commerciales) project is currently sponsoring two students for a two-month research project in Mexico City, with financial assistance from CIDA and the Government of Alberta. ■

Rae McDonald is International Relations Officer, Alberta International.



Norma Freifield, Director of Libraries Ernie Ingles, seated, and Vice-President (Academic) Doug Owrarn exchange pleasantries at the opening of the Norma Freifield Reading Room.

Norma Freifield Reading Room opens Study facility can accommodate more than 300 students

By Folio staff

To the applause of about 200 people, the Norma Freifield Reading Room opened on 12 January.

Situated on the lower floor of Cameron Library, the new study facility was praised by Vice-President (Academic) Doug Owrarn, Students' Union President Garrett Poston and Director of Libraries Ernie Ingles. Much was made of the fact that the Freifield Reading Room is the only 24-hour access facility of its kind in Canada.

Dr Owrarn thanked Quality Color Printing, the University's official printing agent, for providing a trust fund, the interest on which allows the Library to maintain 24-hour access to the Freifield Reading Room, and—during exam periods—to Rutherford Library's Reading Room.

There are more than 230 study carrels, many of which are wired for laptops or "plug-and-play" telecommunication, two formal classrooms, a student lounge, vending canteen and two direct lines to Campus Security Services.

"There's nothing I'd change about it," first-year Science student Christine Press commented. "I'll continue using it."

Hussein Lookmanjee, also a first-year Science student, said he likes the round-

the-clock accessibility and the quietness. Science, Engineering, and Agriculture, Forestry, and Home Economics students all take classes nearby so the Reading Room is very convenient, he noted.

Calvin Cassity, in his third of Engineering, said "It's a nice place to be. It's close, handy and big."

Freifield, who termed the University's use of her name a signal honour, is a native Edmontonian who enrolled at the U of A in 1935. After earning her BA (1938), she attended the University of Toronto's School of Library Science, graduating with a BLS in 1940. Freifield was appointed to the U of A Library staff in 1941 and assigned to the Circulation and Reference Department of the main library which was in the Arts Building. In 1950 she became Head of the Circulation Department when Circulation and Reference were separated. Her name was to be synonymous with circulation services for the next 30 years.

Her first commitment in her lengthy career, she said, was to the students.

Freifield is a former president of the Alberta Library Association and of the Edmonton Library Association. ■

CURRENTS

General Faculties Council meeting

General Faculties Council will meet on Monday, 12 February, at 2 pm in Council Chambers, University Hall. If you would like to have a copy of the GFC agenda, drop by 2-5 University Hall or call the University Secretariat at 492-4965 and ask that a copy be faxed or mailed to you.

Chemistry Chair Selection Committee invites input

The Chair Selection Committee for the Department of Chemistry has been established. Suggestions and comments to this committee are to be made before Friday, 16 February 1996, by writing to Dr RE Peter, Dean, Faculty of Science, CW-223 Biological Sciences Building.

Chair Selection Committee: Faculty of Arts

The Faculty of Arts announces that a Chair Selection Committee is being established for the Department of Linguistics. The Chair, on behalf of the committee, invites nominations and comments from members of the University community; they should be addressed to Dr Gurston Dacks, Associate Dean of Arts, 6-33 Humanities Centre.

Dental meeting takes form of video teleconference

The 10th Midwest Canadian Association for Dental Research meeting will take place as a video teleconference with the Universities of Alberta, Manitoba and Saskatchewan tomorrow (27 January) at 8:30 am.

The Edmonton venue will be the Dvorkin Teleconference Centre, 2nd Floor, Walter Mackenzie Health Sciences Centre. Presentations on dental research at the three universities will be video telecast.

Maclean's identifies U of A's popular profs

By Sandra Halme

The recent edition of *Maclean's Guide to Canadian Universities* includes, apart from the usual facts, figures, and salient points about the universities, a list of each school's popular professors as chosen by the students.

At our University, students selected these four as their favourites (in alphabetical order): Ole Hindsgaul (Chemistry), Susan Jackel (Canadian Studies), Maryanne Doherty-Poirier (Human Ecology) and Jim Vargo (Rehabilitation Medicine).

Maclean's editors contacted student leaders from student-run newspapers, radio stations and governments across the country asking them to meet with their peers to discuss potential names and provide them with a final list. Editors also asked this same group for information to include in its "campus confidential" section.

President Rod Fraser told *Maclean's* "The vision we have is that as we enter the next century, we will be seen nationally and internationally as one of Canada's finest universities." Dr Fraser is also quoted as saying that "we cannot be all things to all persons, what we choose to do, we must choose to do well."

This particular *Maclean's* publication includes a reprint of the annual rankings issue from last November and a capsulized two-page article on 50 of Canada's universities. ■

FOLIO

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Public Affairs produces *Folio* on a regular basis for employees and volunteers at the University of Alberta.

Folio's mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Display and classified advertisements: 3 pm one week prior to publication date.

CLASSIFIED ADVERTISEMENTS:

Ads are charged at \$0.40 per word. Minimum charge: \$3.00. All advertisements must be paid for in full by cash or cheque at the time of their submission. Bookings may be made by fax or mail provided payment is received by mail prior to the deadline date. Pre-paid accounts can be set up for frequent advertisers. Please call 492-2325 for more information.

Display advertisements: Camera-ready artwork is required to size, complete with halftones if necessary. Call 465-3307 or 492-0444 for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be printed with acknowledgment.

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University
of
Alberta

By Michael Robb



The Faculty of Science advertisements will run in tandem with advertisements being placed by the Faculty of Engineering, which will cover those newspapers listed above and a few additional select newspapers in Ontario. "We're being pretty aggressive," says Engineering's Associate Dean (Student and Coop Services) Ken Porteous.

Engineering is also making it more attractive for top students to enroll at the U of A. "Scholarships are a significant factor in attracting good students, and our data last year supports that," says Dr

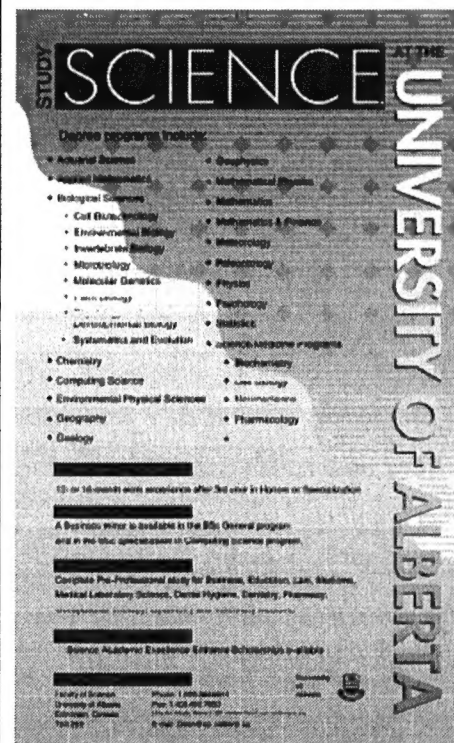
Both faculties aren't stopping there, however. Engineering is embarking on a massive poster and brochure campaign. It will be relying on Math 31 teachers in the high schools to distribute some of its recruitment materials to students. Posters will be hung in high schools, and visits to specific high schools will take place. Posters and recruitment kits are also being sent out by Science. And both faculties have set up a Web page that invites students' questions. ■

By Michael Robb

They expect good service—and that's a perfectly reasonable attitude.

"The student under stress is not usually the student most able to figure out the roadmap to what student service would be appropriate."

She pointed out that rough, recent estimates indicate about 250 students in first year are required to withdraw because of poor marks and about 750 in all years. ■



By Ron Thomas

Israel invests 3 percent of its GDP (Gross Domestic Product) in research and development; Canada invests just over 1 percent of its GDP, Dr Piper says. "They [Israeli officials] are very interested in university structure and the flow of technol-

VP Martha Piper

Dr Piper also spent a day at Hebrew University and participated in an exploratory

Instrumental in Israel's rise in the R&D world are the numerous Russian scholars who immigrated about five years ago, Dr Piper says. At that time, there were few jobs to be had but now, with a lofty goal in place and the help of two years' worth of startup funding from gov-

CIIRDF's Board of Directors meets twice a year, one in Canada and once in Israel. (In Canada, the board normally meets in Ottawa. In June of this year, however, it will meet in Edmonton.)■

The facts are...

University grads get jobs



and here's proof

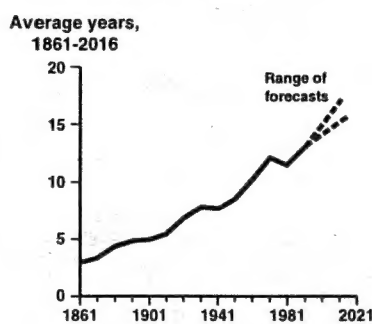
Some people still believe that University graduates have a tougher time finding work than community college or technical institute graduates. Some believe university graduates make less money than their community college and technical institute counterparts. Here's some data, gleaned from a variety of sources, that Folio hopes will shed some light on the subject—and clear up a few misconceptions.

Meantime, the University of Alberta's Career and Placement Services, with the assistance of the Population Research Laboratory, is conducting its first-ever graduate survey this month. These types of employment surveys are routinely conducted by technical institutes and colleges, but rarely—if ever—conducted by Canadian universities, says CaPS Director Wendy Coffin.

"This will give us concrete information on where our graduates are finding work, and give us useful counselling information for current and future students," Coffin says.

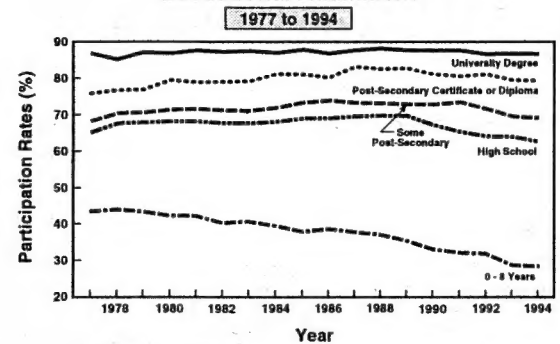
Organizers are hopeful the U of A survey data will be compiled and available by the end of March.

Schooling in Canada



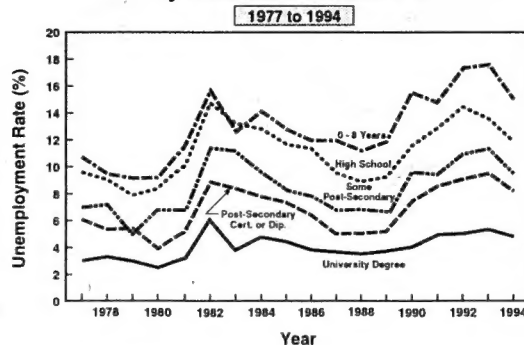
Source: John Kettle

Canadian Participation Rates by Educational Attainment



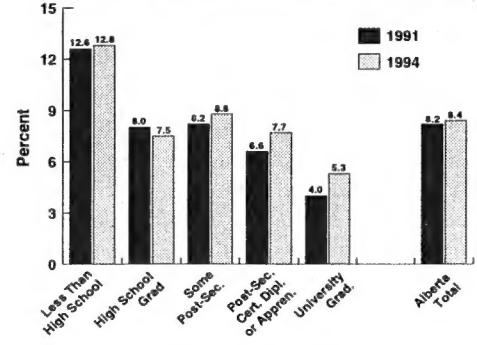
Source: Education Quarterly Review

Canadian Unemployment Rates by Educational Attainment



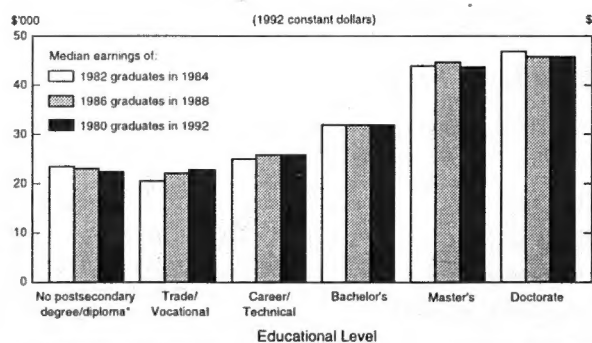
Source: Education Quarterly Review

Unemployment Rates by Educational Attainment, Alberta, 1991 and 1994



Source: Statistics Canada Labour Force Survey, Micro Data, 1994

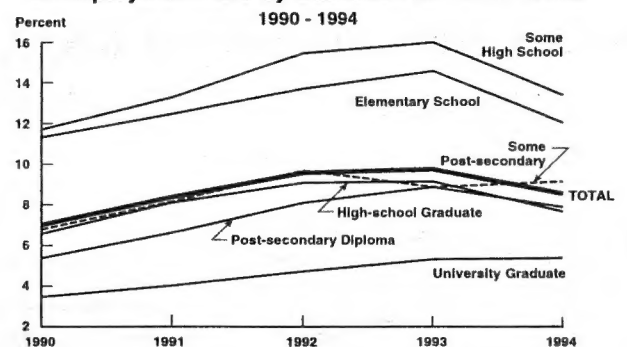
Median Earnings of Graduates Working Full Time Have Remained Relatively Stable



*Refers to the incomes (rather than earnings) of 20-to 29-year-olds working full time

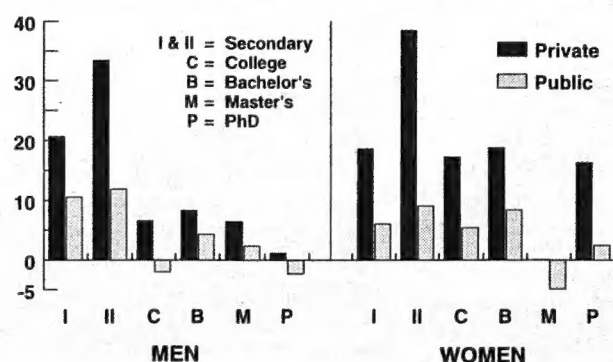
Source: National Graduates Survey

Unemployment Rate by Education Level in Alberta



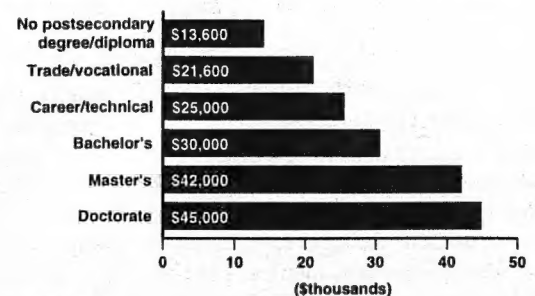
Source: Statistics Canada

Private and total rates of returns, Canada, 1985, men and women, various levels of education



Education pays

In 1992, the median earnings of 1990 graduates increased by education level attained.



Source: Statistics Canada

Source: François Vaillancourt.
Canadian Journal of Economics, August 1995.

Secondary (I):
• Secondary with respect to elementary schooling.

Secondary (II):
• Secondary with respect to incomplete secondary schooling.
• Collegiate and bachelor's degrees with respect to completed secondary schooling.
• Master's with respect to bachelor's degrees.
• PhD with respect to master's degree.

New Fitness and Lifestyle Centre open to students and staff

Manager says it will play a role in maintaining quality of life on campus

By Michael Robb

The newly created Fitness and Lifestyle Centre will play a part in the University's commitment to maintaining the quality of campus life and attracting top students, says manager Patti Nixon.

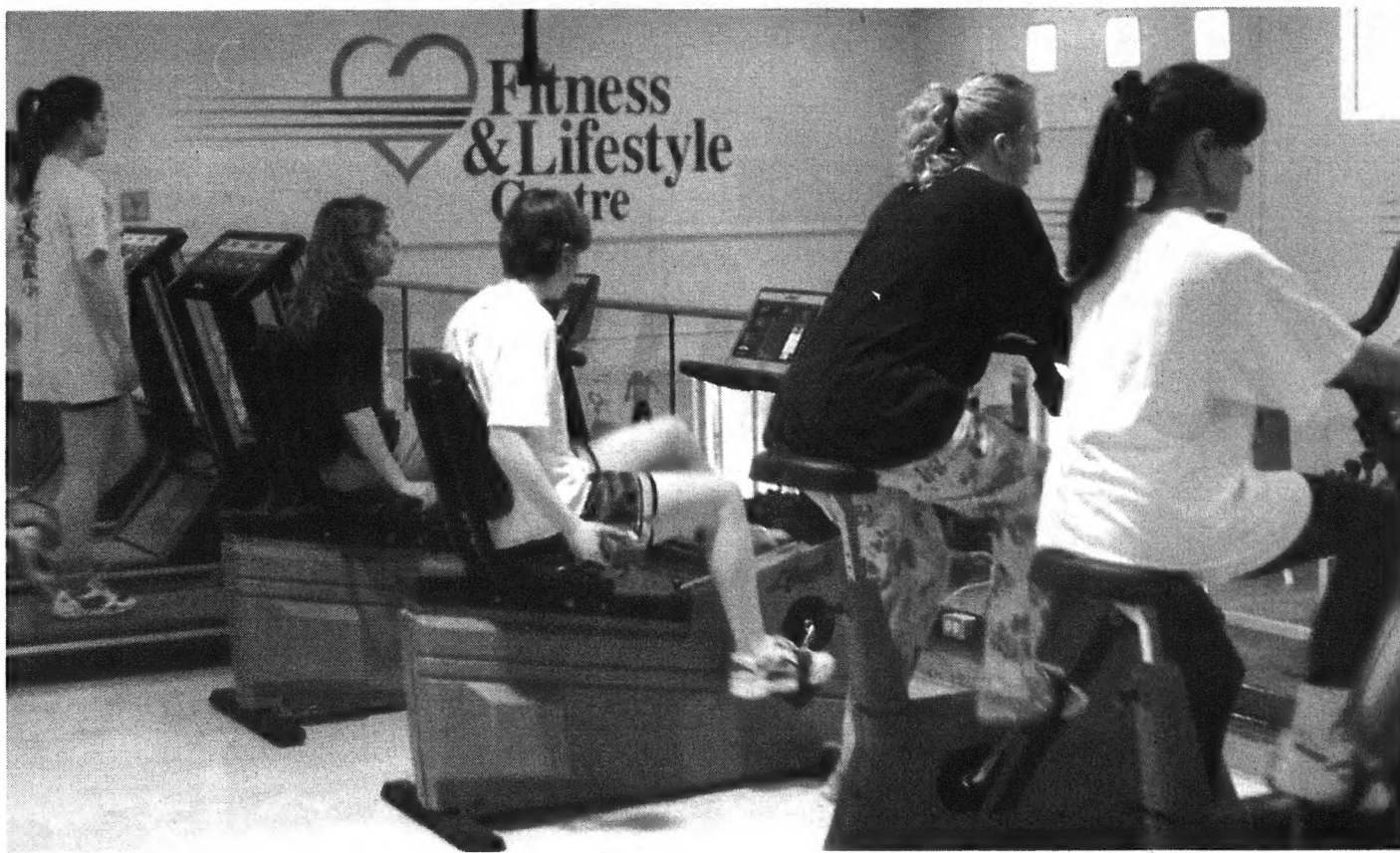
With a new fitness centre at the University of British Columbia and fine facilities at The University of Calgary, it's essential the University of Alberta have similarly equipped facilities, says Nixon, who will be responsible for the 7,200 square foot facility, located in the old gymnastics gymnasium.

The goal, says Dean of Physical Education and Recreation Art Quinney, is to create a world-class facility. "This has been badly needed for some time," he says, pointing out that the new facility was full within an hour and many students had smiles on their faces.

The Centre, which opened 15 January, includes three primary areas. The cardiovascular area is equipped with treadmills, steppers, computerized bikes and rowing machines. The free weight area has a variety of pieces of weight training equipment, including dumbbells, barbells, Olympic weights, plate-loaded pieces, lifting stations and benches. Five more pieces are on the way. And the circuit training area will have about 100 different workout stations. Much of the equipment for the circuit training area has not arrived yet.

About \$200,000 has been spent on equipment alone, says Nixon. The campus recreation enhancement fund played a big part in the facility's development; students pay \$2.50 per term into the fund. That was augmented by funding from the Faculty and the University.

Part of the \$2.50 will be devoted to the costs of operating the Fitness Centre. Funding from graduate students, NASA members and AAS:UA members will



Students didn't take long to fill the new Fitness and Lifestyle Centre.

also help offset the operating costs, the Dean explains.

Windows have been installed in the facility, resulting in a bright and appealing interior, in marked contrast to the old facility located just down the hall (the old weight room will remain open to users). The gymnastics program has been shifted to the Athabasca Hall annex. It's kind of nice to reclaim a facility originally used for gymnastics, says the Dean, pointing out that the annex has a wonderful ambience. The annex was used by the Drama Depart-

ment until it consolidated its operations at the Timms Centre for the Arts.

The new Fitness Centre will be supervised at all times; orientations will be offered initially several times a day. And the Centre will be integral to a number of programs the Faculty plans to offer. Workshops and seminars will be offered on topics of interest to the facility's users.

January is open house month for all Van Vliet Centre members at the new Fitness Centre. ■

Poston says Klein meeting a success

SU President confident that Premier understands budget concerns

By Sandra Halme

Students' Union President Garrett Poston is satisfied that as a result of a frank discussion with students, Premier Ralph Klein has a much better understanding of the impact of cuts to post-secondary education and the importance of reinvesting in it.

"I believe we got through to him," Poston said of the meeting held last week between Alberta student leaders and the Premier. He points to the comment from the Premier that if they (students) had solid proof that the quality of education was indeed suffering he would reconsider this year's cut of 3 percent.

Poston says another positive outcome of the meeting is that the Premier agreed to meet with the students again in March after the budget has been brought in. "I don't think he'd meet with us again if he wasn't serious about reinvesting in postsecondary education," Poston adds.

According to Poston, the meeting lasted the full 90 minutes with the students sticking to their agenda of presenting four briefs: the importance of postsecondary education; how postsecondary education has fared compared to other public sectors during the budget cuts; the overall impact of the cuts; and, a list of needs, including funding for infrastructure support and faculty renewal.

"The Premier wasn't fully aware of the severity of the problems," Poston told *Folio*. "He can't be informed of everything and our meeting served to explain such things as faculty leaving and their positions not being filled, while entire classes are being dropped from the curriculum." Nor, says Poston, was the Premier fully aware that over the last five years tuition fees have doubled while the quality of education has declined. "It seemed to hit home to him that tuition has gone up while the quality has gone down."

No date has been set for the March meeting. ■

The bird man, the fish man, the bear man ...

Biological Sciences museum collections manager known by many names

By Michael Robb

"We're going to see the 'bear man' today, daddy," says the kindergarten student.

"Who's the 'bear man'?" asks the father.

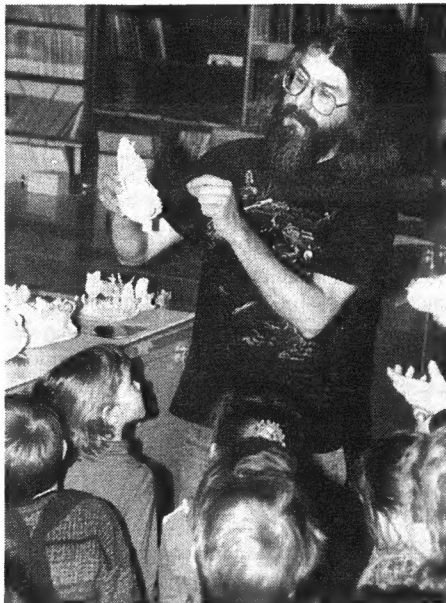
"He works at the University, daddy."

The "bear man" is more commonly known as Wayne Roberts, the Biological Sciences Department collections manager. Tomorrow, he may be the "fish man". Next day he may be the "bird man". That all depends on what the school group wants him to speak about.

To his colleagues on campus, Roberts is known as an invaluable member of the team, a man committed to the preservation and enhancement of an outstanding zoological collection and—in the broader context—to the protection of the natural environment.

His day-to-day commitments include guiding field trips to local wetlands, delivering teaching specimens to and from classrooms, acting as a technical advisor to other scientists and, on occasion, serving as the "bear man" to local school visitors.

When time permits, he conducts his own research; he's particularly interested in the mountain whitefish—although his popular and more technical writing focuses on amphibians, reptiles and fishes. "I'm particularly interested in how animals are distributed over the landscape," says Roberts, an avid traveller who can be



Biological Sciences collections manager Wayne Roberts is often called upon to show some of the raptor specimens. But he says one of his favourite birds is the black-capped chickadee, a feisty bird alive and active in the coldest of weather.

found most weekends fishing the province's streams and lakes.

He's been at home beside those lakes and streams for most of his life. Today, he lives on a nature sanctuary near Innisfail.

Early in his life, his family spent some time in England. He remembers gazing into its tadpole-filled ponds. Later, growing up in southern Alberta, the Red Deer river valley became his second home, a place where he cultivated a visceral connection with the natural world. He spent a year with his uncle, a high school biology teacher, in British Columbia gathering data on lamprey eels, work that would eventually become his uncle's master's thesis. "He was a good role model and gave me a lot of encouragement."

In 1968, the young Roberts came to the U of A. He's been here ever since. He earned his BSc in 1972 and his MSc in 1975. Armed with those degrees, volunteer work at the Vancouver Aquarium and an innate curiosity about the natural world around him, Roberts went to work almost immediately for the Zoology Department's museum.

He's worked with some of Alberta's leading zoologists, some really fine people, says Roberts, who have had an enormous impact on his life—people like Bill Fuller and John Holmes.

In turn, Roberts has left his mark on countless young minds. He points out that it's the school children—those who know him as the 'bird man' or the 'fish man'—who ask him the really big questions. "The children don't have any boundaries; they want to know why." ■



University of Alberta
Student Services

she may need our help

For more information:

- Office of the Dean of Students
492-4145
- Student Advisor
492-5205
- Sexual Assault Centre
492-9771
- University Health Services
492-2612
- Student Counselling Services
492-5205
- International Centre
492-2692
- Services for Students with Disabilities
492-3381
- Native Student Services
492-5677
- Academic Support Centre
492-2682
- Career and Placement Services
492-4291
- Student Financial Aid and Information Centre
492-3483

A Professor's Guide to Student Services



SOMETIMES I'M UNCLEAR ABOUT WHICH SERVICE WOULD BE BEST IN A PARTICULAR CASE.

Is there a general resource that can help me make an appropriate referral? The Office of the Dean of Students is the place to call if you are looking for general advice or a place to start.

HELP! I THINK ONE OF MY STUDENTS HAS A LEARNING DISABILITY.

What do I need to know? Chances are, she might have a learning disability or another "invisible" disability and could benefit from one of the programs offered at Services for Students with Disabilities.

I HAVE A STUDENT FAILING MY CALCULUS COURSE.

I know she's bright and just needs a little extra help. Where can I refer her? The Academic Support Centre offers workshops and tutorials, providing effective writing, mathematics and learning programs.

MY MUSIC STUDENT REALLY SHOULD STUDY ABROAD FOR A YEAR.

Where can he get the information he needs to explore his options? The International Centre provides foreign student information

assistance, information about academic exchanges and development education programs.

I'M WORRIED AN ABORIGINAL STUDENT ISN'T GOING TO ADAPT TO CITY LIFE.

How can I get him connected to a support network? Native Student Services has an extensive network of support services, provides counselling and orientation services and has connections with aboriginal communities throughout the province.



MY FORESTRY STUDENT JUST CONFIDED IN ME THAT SHE'D BEEN SEXUALLY ASSAULTED THE YEAR SHE STARTED AT THE U OF A.

Is there help on campus? The Sexual Assault Centre provides crisis intervention and assistance, short-term counselling and referrals and sexual assault education programs.

I'M WORRIED ABOUT MY GRADUATE STUDENT. I KNOW HER RELATIONSHIP IS UNDER A LOT OF STRESS.

Is there an impartial counselling service she can turn to for help? Yes, in fact, Student Counselling Services provides personal, academic and group counselling, crisis intervention and workshops and training sessions.



WILLIAM'S BROKE! HE'S THINKING OF GOING BACK TO WORK AT LEAST FOR A YEAR.

That would be a shame. Are there sources of money on campus he doesn't know about? The Student Financial Aid and Information Centre can step in immediately to provide emergency financial loans and bursaries. It also provides student loan application assistance and financial counselling.

I'M HAVING PROBLEMS WITH A PARTICULAR STUDENT.

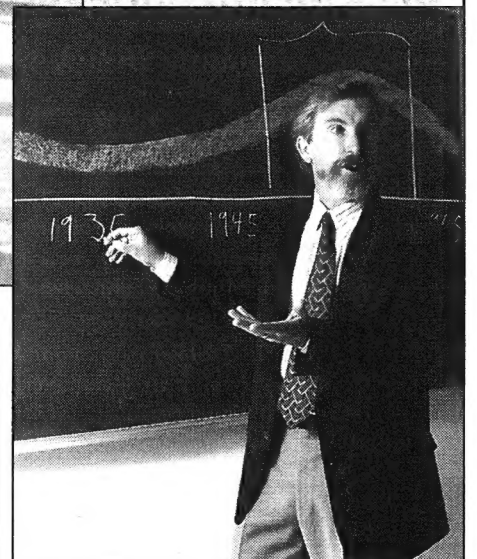
I think I need to familiarize myself with a few key academic regulations. Who has that kind of information on campus? The Student Advisor does—and more. The office provides academic appeal and grievance assistance and mediation services for students and professors.

I'VE NEVER REALLY THOUGHT ABOUT OUR STUDENTS' JOB PROSPECTS.

Should I? Increasingly, the answer to that question is yes. Career and Placement Services (CaPS) is one of the country's top such units. It provides career planning/job search and interview skills work-shops, career and job search counselling, career fairs and forums, job postings, recruitment services and a massive resource centre.

SINCE MIDTERMS, SHIRLEY HAS BEEN LOOKING REALLY RUN DOWN.

Should I suggest she go see a doctor on campus? Absolutely. University Health Services has everything: physician consultations and examinations; psychiatric services, subsidized pharmaceutical costs; medical statements for exam deferrals; peer health education programs; dietary counselling; and laboratory services. ■



"It's really helpful for yourself and your students that you learn very early about what Student Services has to offer, so when problems arise you know where to go and what to do," says Vice-President (Academic) Doug Owram. "Those links save time and effort on both sides."

Prepared by Michael Robb and Sean Kennedy

CLIP PAGE & SAVE

Under pressure

Study finds students worried about job prospects, marks, self-esteem and well-being

By Michael Robb

University of Alberta students are just as likely to be heading to work when they leave campus as they are to be heading home to crack the books. About 65 percent of students work while attending the U of A, according to a recent study conducted by the Office of the Dean of Students.

Ten percent of those students surveyed work half-time, another three percent work the equivalent of three or more days a week, and about 15 percent work the equivalent of about one and a half to two days per week. However, among those employed students, more than half work for essential reasons—to buy food, cover the rent and pay for books and tuition.

The study, titled *Levels of Concern and Stress Sources Among a Group of University Students*, found that about 72 percent of first-year students and 43 percent of fourth-year students contacted have no debt. Thirty percent of students in fourth year owed \$10,000 or more; 15 percent owed between \$5,000 and \$10,000; 12 percent owed less than \$5,000; and 43 percent owed nothing.

The study was based on responses provided by 459 undergraduate students (269 females, 190 males), from across campus, who completed a student life survey. Roughly equal numbers of students from each year were surveyed. The questionnaire included 108 items, with a total of 219 responses. Students were asked to rate statements on a five-point scale to determine whether certain situations were issues or were not issues for them.

The questions focused on four areas: self-esteem; psychological/mental health; financial, academic and career; and physical health.

Although financial, academic and career issues concerned many of the respondents, self-esteem issues were deemed to be even more critically important. "Students are having lots of doubts about themselves," says Karen Kovach, program head of the Learning Resources Academic Support Centre and one of the authors of the study.

Well over half of the respondents said they had moderate or high levels of concern about their abilities to be successful in life. They also expressed uncertainty about job prospects, having enough money, and concerns about being poor.

The study was conducted by Barbara McKenzie, coordinator, Student Counseling Services, Gordon McNroy, director, University Health Services, and Dr. Kovach; the study's findings were presented to President Rod Fraser at a meeting of Student Services unit heads 10 January. A presentation was also made by the study's authors at the 12th annual student advisors' conference last week.

Dr. McNroy said the statistics in the study certainly fit with what he's seeing in University Health Services. Students' problems are multifaceted, and many people, particularly those off-campus, don't really understand that.

Dean of Students Jim Newton said many elements of stress relate to the lack of a welcoming, supportive, caring environment.

A number of suggestions to combat student stress were raised at the conference. Peer health educator and student Amber Dean suggested more work needs to be done to make students aware of existing services. There's a huge potential for faculty advisors to refer to student services organizations and for the Students' Union to work with student services organizations, she said. Information about student services needs to be an integral part of core courses and orientations, she said, adding that peer health educators have started to conduct presentations on stress in classrooms.

Sharon Marples, University Health Services, said there's a need for more phone contact among student services providers.

Several student service advisors suggested the University was known by students as a place of rules and regulations. Dr. Kovach said she encounters students who believe there simply aren't exceptions made to those rules. Keith Briggs, Chair of Agricultural, Food and Nutritional Science, said it's unfortunate that the word isn't getting out that the University can solve a lot of problems of students. That needs to be more commonly known by more students, he suggested.

It's important that professors know their own limitations as counsellors, said conference speaker Ed Blackburn, Faculté Saint-Jean, and, therefore, important that professors know where to refer students for expert advice and assistance. ■



Research Revelations: curtain soon to go up

All Faculties represented

By Ron Thomas

The third edition of Research Revelations is all set for Saturday, 10 February, in CAB.

The event is a coming together of researchers, a chance to a) showcase their work and b) see just what it is that colleagues in other parts of campus are doing. Ideally, the respective research interests will have something in common and will lead to collaborative research projects.

"It's a colleague-to-colleague kind of event," says Martha Piper, Vice-President (Research and External Affairs). Dr. Piper also characterizes Research Revelations as a dynamic event that's particularly gratifying for those who participate.

Approximately 200 projects are being readied for the day (10 am to 5 pm on the main floor of CAB). These range from "The Juvenilia Press" to "Enterprise: The Next Generation of Parallel Computing" to "Investigating the Neural Bases of Anxiety."

"All Faculties are represented, and many departments not involved in past years, like Art and Design, will have a forceful presence," says David Norwood, one of the event's organizers. "There also appear to be many more collaborative projects this year than before."

Research Revelations '96 is hosted by the Office of the Vice-President (Research and External Affairs). It is open to all researchers in all Faculties; other members of the University community are invited to attend.

For further information on Research Revelations: '96, contact:

David Norwood
(extension 4730, E-mail:
david.norwood@ualberta.ca). ■

Peer health educators offer stress management for students

You can get your degree without losing your mind, students advise fellow students

By Michael Robb

You haven't started your term paper even though you've had the topic for two months, you have serious hunger pangs because you haven't had time to eat today, your roommate is growing bacteria cultures in the fridge, your car has a flat tire, and your class presentation partner just called to say that she has laryngitis and can't make it to the presentation you're doing for 40 percent of your mark.

Now that's stress!

But, say peer health educators, students can do something about it, and they have a host of suggestions to make students' lives less stressful. This year, the peer health educators, a group of students who work under the auspices of University Health Services, started conducting

stress management presentations in response to requests by professors.

Many of the peer health educators' suggestions are practical:

- End unhealthy relationships;
- Let go of obligations you no longer wish to fulfil;
- Avoid excessive use of alcohol;
- Use a daytimer and stick to it;
- Stop smoking;
- Eliminate or reduce caffeine consumption;
- Use positive self-talk;
- Get enough sleep;
- Build a support system;
- Eat regularly and well;
- Learn meditative or relaxation exercises;

- Prioritize your tasks;
- Take routine breaks from school work;
- Live within your means;
- Set aside time for leisure; and,
- Focus on one thing at a time.

According to peer health educator Geneviève Jones, if students take care of many of the little irritants in their lives, they'll be much more able to cope with the major ones. "It's the little stresses that push us over the edge."

The feedback University Health Services has received about the presentations has been very positive, says Health Education Coordinator Judy Hancock. "We've

received many expressions of gratitude," she says, and students are impressed there's actually someone out there trying to help them by giving them some tools to cope with stress.

Professors are the crucial link, she points out. Each presentation is conducted in response to a request from a professor. And there are payoffs for professors, Hancock says. The presentations will improve students' well-being and that helps improve the classroom climate. ■

Catherine M. Fletcher D.D.S.

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Stress survey of U of A students — let's cut to the chase

By Karen Kovach

On 11 January, the local newspapers and television stations became interested in the results of a study called "Levels of Concern and Stress Sources Among a Group of University Students." The survey was designed for students to identify the areas in their lives, both academic and personal, which were the most stressful for them.

But as I browsed through my data and the articles in the newspapers and tried to recall what students and professors had told me, I realized that we were all standing on common ground. What could be common between students and professors in terms of stress-related issues? Here are some of them.

- We're both under time pressure to meet the demands of specific tasks.
- Classes are larger which appears to affect both the quality of teaching and the quality of learning.
- There is the perception that the university has become an impersonal place.
- Both groups face uncertain career prospects.
- Both groups say they do not have much of a life anymore. They work

longer hours and try to do more with less.

- There doesn't seem to be much money around anymore.

Research into these kinds of stressors gives some clue as to what is happening to us. If we see the issues as a challenge, then we are productive and purposeful in our acts; conversely, if we see the stress as negatively affecting us, it will. If we feel that we have very little control over our lives, we turn into pessimists who see the glass as half empty instead of half full. The key is to determine those areas where we can make a difference and work towards those goals.

In times of high stress, many of us tend to isolate ourselves from the very people who would give us the strength to carry on: our families, friends, colleagues, and others who share the same concerns. We choose to close ourselves up and get our work done rather than trying to find some kind of balance. Isolating ourselves is one of the worst things we can do to ourselves in terms of mortality risk factors. And it is not the number of relationships we have that is important; it is the quality of these

relationships that can help to buffer us from the stresses of everyday life.

During times of stress, it is important not to take too narrow a world view — my job, my money, my work load.... Developing a sense of community with a common goal is important. The rest of the province looks to its universities as places where they can get answers. We need to lead, not to follow in developing purposeful and meaningful common goals.

Some old adages may suffice to give us a different perspective:

- Put off today what you can do tomorrow (especially if you have already done a day's work). It will still be there.
- He/she who laughs best laughs last.
- The university has always been an impersonal place. It's the people who personalize it.
- The Joneses may be rich, but are they happy?
- United we stand, divided we fall.
- There are more ways than one to skin a cat.
- If you let it, a task can completely overwhelm you.

- I don't know any person, who on their deathbed said, "I wish I'd spent more time writing that paper." ■

Karen Kovach, program head of the Learning Resources Academic Support Centre, is one of the authors of the stress survey.

Focus on health presentation at the Senate

Meeting 23 February

Health care is a hot topic in the province of Alberta—and the University of Alberta Senate wants to be a part of the debate.

Senate's 23 February meeting will include a panel discussion entitled A Fast-changing Scene: The University and Health. Participants will include: John Young, a University sociologist and member of the Capital Health Authority; John Dossetor, Director of the Bioethics Centre; and Wayne Lamble, director of Applied Sciences and Health, Faculty of Extension.

The meeting will be held in Bernard Snell Hall, in the Walter C Mackenzie Health Sciences Centre, beginning at 8:15 am. ■

Professors' paper consumption gets failing grade

By Stephen Hanus

We are well into the nineties, the age of environmental awareness, but what is actually coming out of this 'green revolution'? Of course, we all are too familiar with our environmental problems, and the three buzzwords, reduce, reuse and recycle. Though we may be knowledgeable about what the environmental problems are and what their solutions may be, I am concerned with the lack of initiative individuals have taken to apply this to everyday life. Here at the University of Alberta, there is a general indifference among professors about the overconsumption of paper. This is especially disturbing because professors are considered leaders of society thus giving them the potential to influence many. A disregard to issues such as the waste of paper will inevitably be translated to the students. I have isolated two areas where I feel that professors could make a dramatic impact with relatively little effort, not only in terms of reducing paper consumption in their classes, but also teaching students to be more responsible.

A major contributor to unnecessary paper consumption comes from single sided handouts. A number of my classes for example, containing more than 40 stu-

dents, have had more than 100 pages of single sided notes. This is completely unacceptable when considering that well over 2,000 sheets of paper could have been saved in one class alone. This is 1996! Photocopiers have the ability to double side pages automatically. If professors simply would ask the copy centre operators to double side their handouts, tonnes of paper will be saved. It is irresponsible for professors not to reduce paper consumption in this manner.

A second contributor to the excessive paper wastage stems from the 'old-school' essay writing format. Mandatory front page, a second blank sheet, separate bibliography, double spacing, single sided pages, and 12 font writing are fairly standard procedures. Such a format is attractive, but the benefits are far outweighed by the cost of inefficient paper use. Paper used in essays written by the University's more than 29,000 students can be reduced by over half if the title and student information is on the first page of text, there is no blank sheet of paper within the essay, bibliographies are continued on the last page of text, pages are double sided, lines have 1.5 spacing and letters are 10 font. Moreover, recycled paper can be used! It

is disturbing to think that I know of only one professor who prefers that students use this essay writing format. Such a format, implemented by professors, sends a message to students which displays concern about environment issues. It is also a prime opportunity for professors to practice their influential role by indirectly teaching their students to be conscientious about frivolous resource consumption.

Lets face it, we have all had time to contemplate the doom and gloom images the media has sent to the public. It has been long overdue to get our wasteful society into the habit of taking the initiative of taking measures to curb the problems at hand. Professors, as one of many concerned students, please give credence to what I have said. Do take that extra step to change your old habits when it comes to paper consumption, which will inevitably urge students to follow your lead. ■

Stephen Hanus is a fourth-year Science student.



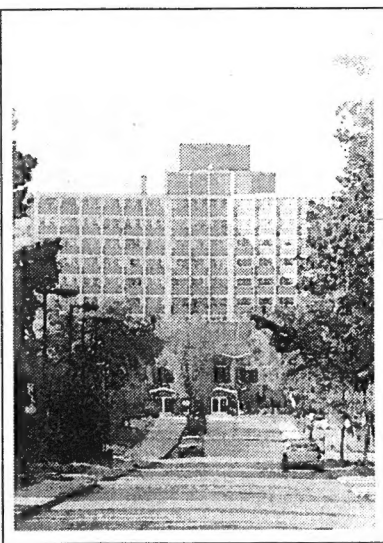
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AAS:UA, University administration exploring issue of sessional membership in AAS:UA

Hoping to be able to develop joint proposal for Board of Governors

By Michael Robb

The University administration and representatives of the Association of the Academic Staff are discussing the possibility of including sessional instructors as members of the AAS:UA.

"We want to approach the Board cooperatively along with the administration with a proposal," said AAS:UA President Rick Szostak. "We are in the process of drafting a memorandum."

"We have no problem with them [sessionals] being represented by the AAS:UA," said Vice-President (Academic) Doug Owrarn. "It isn't unusual for sessionals to be represented. It seems to go both ways across the country."

"The big thing that comes out of representing sessionals is that they get an avenue to complain," Dr Szostak told *Folio* last week. "The Universities Act says every contract has to contain two or three things; one of them is some sort of grievance procedure. There are people out there who believe they've been treated unfairly and simply have no mechanism to make such a complaint. That's what our equity committee was most concerned about. There are literally hundreds of people working on campus with no mechanism that academics and nonacademics take for granted."

The University does have rules and regulations governing fulltime sessionals on campus.

The difficulty arises, explained Dr Owrarn, in determining who is a sessional. For example, a surgeon coming in to teach a few hours in an advanced medical course, a PhD student teaching courses and people who see the job as an apprenticeship are all sessionals. "There's quite a range," Dr Owrarn pointed out.

As of 1 November 1995, there were about 250 fulltime term operating sessionals and about 580 parttime term operating sessionals.

Dr Owrarn said that from the University point of view, one of the consequences of cutbacks is that sessionals who have been here for many years now find themselves dropped because department bud-

gets are cut. "We want to make sure that those people have some kind of protection and security."

On the possible financial implications, Dr Owrarn said, "In theory, this is revenue neutral. There's no more money in the system. So, it's up to the AAS:UA. If they want to shift some money from tenure track faculty to sessionals, that's something we can talk about."

This is not the first time the issue of sessional representation has been discussed on campus. It's actually been

"We want to make sure that those people have some kind of protection and security."

VP (Academic) Doug Owrarn

around for about two decades. At The University of Calgary, sessionals are represented by the faculty association, and several other universities across the country do likewise.

There is a widespread fear of universities replacing fulltime professors with

sessionals, Dr Szostak said, adding that it is important to maintain a large body of professors who fulfil the University mission—to teach and conduct research. "But if it is necessary to have sessionals, then they need to be represented," said Dr Szostak.

The AAS:UA polled its members on the issue. Seventy-five percent of those who responded said sessionals should be represented.

Dr Szostak is hopeful the Board will consider the matter at its May meeting. ■

Addictions

Continued from page 1

That course will now be part of a newly established program, the Addictions Studies Certificate Program, approved recently by the University. The Faculty of Extension in conjunction with the Alberta Alcohol and Drug Abuse Commission (AADAC) has developed the new program.

This is long overdue, says Brigden-Beaudoin. "The program will help me in my role as a counsellor."

According to officials with AADAC and the Faculty of Extension, there were no postsecondary training programs in addictions available in the Edmonton area.

The first course filled up quickly; an RCMP officer, inner-city physician, social workers, corporate and school counsellors, teachers and others signed on. And organizers have high expectations for enrollment in the two-year program, which includes six core courses and a total of 39 elective courses.

The development of the program is the result of three things, says co-organizer Gordon Munro, a special projects coordinator with AADAC's Training and Communications Services. First, AADAC staff have over the years been asking to be cer-

tified at a level beyond what they have attained as a result of courses they take internally. Second, students have been asking what else they can do to enhance their job prospects. And third, people working in the field have been asking for such a program for some time.

Professionals in the field say the program will help them combat the enormous addiction problems in the province. A recent study suggests absenteeism related to alcohol and drug abuse costs the Alberta economy some half a billion dollars every year.

A few years ago, AADAC admitted 31,643 clients to detoxification, out-patient and residential programs. That number has remained high. Meanwhile, professionals in the field—many of whom have never had formal education or training—have increasingly seen the need for postsecondary training programs in addictions.

A needs assessment analysis was conducted in 1994 by the Faculty of Extension's applied behavioral sciences program, says Christine Chepyha, program manager, Health and Wellness, Applied Sciences, Faculty of Extension. That analy-

sis found that there was a need for continuing education for psychologists, social workers and others working in either paid or volunteer roles.

The program is a collaborative effort, with AADAC providing up to half of the instructors and the University providing the remainder. The courses will be offered at convenient times, to allow people who work an opportunity to enroll. Discussions are under way on the issue of university course transferability. That would certainly enhance the program and make it more attractive to students, says Brigden-Beaudoin.

"We want to have the program operate at a high level of academic standards," says Munro. "We hope that the integration of research, theory and practice will be maintained throughout the program."

Chepyha says it's possible that some of the program could be offered in distance-delivery form or via the Internet. And professors could be sent to locations outside the city to deliver courses. ■

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APPOINTMENTS

The Research Grants Office (RGO) has a new Programs Officer, Steve Ozar. Ozar had been working as a library automation consultant since finishing his Master's of Library and Information Studies at the University of Alberta. As a student, he served as Vice-President Communications for the Graduate Students' Association; as Programs Officer, he will be involved in the development of RGO's funding source's database and the distribution of *Target Point*.

Michael (Mike) Harwood has been appointed Payroll Operations Manager for the Human Resource Group. "Mike brings to the University over sixteen years of payroll experience, with strengths in computer applications and managing payroll staff," says Margot McCune, Human Resource Group Leader for Pay and Benefits Administration. Harwood starts 1 February.



Franco Pasutto is the new Associate Dean, Undergraduate Education, Faculty of Pharmacy and Pharmaceutical Sciences.

Dr Pasutto has been with the Faculty since 1981 and currently holds the title of Professor of Medicinal Chemistry. He has served as the Faculty's Admissions Officer for the past three years and has received the Faculty's Squibb Award for Excellence in Teaching on three different occasions. Dr Pasutto's appointment comes at a time when the Faculty is replacing its Bachelor of Science in Pharmacy degree program with a Doctor of Pharmacy. This will eventually become the entry level degree for licensure as a practising pharmacist. At the same time, the Faculty will be adding a new degree program to be known as the Bachelor of Pharmaceutical Sciences.

Hyndman Award winners will cast their nets internationally

By Ron Thomas

That incomparable feeling of seeing something of yourself in others was experienced by Lou Hyndman and Peter Meekison at last week's presentation of the Lou Hyndman Edmonton Glenora Awards.

Hyndman, Chancellor of the University of Alberta, and Dr Meekison, University Professor of Political Science, have, of course, continually given of their talents and time for the betterment of others. So too do the Hyndman Award winners, Joanne Bishop and Chad Park.

Besides high academic standards, the Award is based on commitment to the community and leadership ability and the potential to expand that ability.

Asked about their ability to have an almost serene sense of balance in their lives, both students say by all means get prepared for a job but value the learning experience. "The perspective that you take is really important," Park says.

Bishop says she learned from former Students' Union President and current Rhodes Scholar Randy Boissonnault that a student can take the regular road or the high road. In other words, it's good to leave with a degree but leaving with a degree and a university education is even better.

She says she's indebted to the University for the life skills she's acquired since coming here from high school in Medicine Hat.

An Arts student majoring in Canadian Studies, Bishop is a former Vice-President (Academic) of the Students' Union and has been a research assistant and volunteer coordinator with the University's Office of Human Rights. She serves on various planning committees with the International Centre, deals with nonacademic student appeals on the University Appeals Board and is the student representative on the Alberta Council on Admissions and Transfers. Bishop has also been a volunteer with UNICEF and the Shinerama Cystic Fibrosis Fundraising Campaign.

After graduation (she's a third-year student), Bishop hopes to become a human rights advocate in the foreign service.



Photo Services

For warmth, the Faculty Club fireplace had nothing on the congratulations Chancellor Lou Hyndman extended to Chad Park and Joanne Bishop.

The Hyndman Award is very motivating, Park says. "It makes me feel like I've made some good decisions and I'm motivated to continue making them."

A third-year student majoring in International Business, Park is president of AIESEC (Association International des Etudiants en Sciences Economiques et Commerciales), and is a student leader for SORSE. He is very active with community organizations and has been a volunteer with the Spruce Grove Community League (basketball referee), the Alberta Summer Games and the Spruce Grove Rotary Club (Youth Liaison).

The main goals in Park's future are to work for AIESEC Canada for a year after graduation and then work with AIESEC in international development in a foreign country.

"The Award winners represent all that is good about the University of Alberta," said Dr Meekison, chair of the selection committee for the past seven years. "This year's winners are following a great tradition."

Thirty undergraduate students applied for the Hyndman Award this year. ■

Development Office welcomes new member of team

By Folio staff



The appointment of Val Hoey as Senior Development Officer rounds out the staff complement in the Development Office.

In concert with Terry Flannigan, Executive Director of External Affairs, Guy Mallabone, Director of Development, Marcus Schwabe, Senior Development Officer (Major Gifts), and other colleagues, Hoey is helping to develop the University's major campaign. Her primary responsibility is Planned Giving.

Hoey, whose appointment took effect 15 January, has spent the past 12 years with CUSO, most recently as the Fundraising Manager for its prairie and northwestern Canadian division.

As a member of the Canadian Association of Gift Planners (CAGP), Hoey chairs the CAGP Edmonton Roundtable. She is also a member of the Alberta Association of Fund Raising Executives (AAFRE). ■

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TALKS

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

6 February, 4 pm

John Aitchison, postdoctoral fellow, Howard Hughes Medical Institute, The Rockefeller University, New York, "NUPS and KAPS: Constituents of the Yeast Nuclear Pore Complex and a Novel Family of Nucleo-Cytoplasmic Transport Factors." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

15 February, 4 pm

Paul Herman, postdoctoral fellow, Department of Molecular and Cell Biology, University of California, Berkeley, "Cell Cycle Control: the Regulation of Entry Into and Exit From Go Resting States." 5-10 Medical Sciences Building. Presented by Anatomy and Cell Biology.

ANTHROPOLOGY

29 January, 3 pm

Lisa Gould, "Primatological Research in Madagascar: Sociality and Social Organization of the Ringtailed lemur (*Lemur catta*) at the Beza-Mahafaly Reserve in Southwestern Madagascar." 14-28 Tory Building.

2 February, 3 pm

Joseph Anthony Ezzo, Statistical Research, Tucson, Arizona, "Archaeometric Analysis of Pre-historic Migration: A Case Study from the American Southwest." 14-28 Tory Building.

BIOLOGICAL SCIENCES

ANIMAL PHYSIOLOGY AND CELL BIOLOGY

6 February, 12:30 pm

Diane Bienek, "Isolation and Characterization of Specific Antigens from *Trypanosoma Denilewskyi*." G-114 Biological Sciences Centre.

13 February, 12:30 pm

Ken Lukowiak, Department of Medical Physiology, University of Calgary, "Operant Conditioning of *Lymnaea stagnalis*." G-114 Biological Sciences Centre.

BIOLOGICAL SCIENCES DEPARTMENT SEMINARS

2 February, 4 pm

CC Gates, Wildlife Management Division, Department of Renewable Resources, Fort Smith, NWT, "Tuberculosis, Brucellosis and Anthrax Relevant to Bison Conservation in Northern Canada." M-145 Biological Sciences Centre.

9 February, 4 pm

Thomas N Taylor, University of Kansas, Lawrence, Kansas, "The Biology and Evolution of Fossil Fungi." M-145 Biological Sciences Centre.

ECOLOGY

2 February, noon

Murray Humphries, "On the Ecology of Red Squirrels." G-208 Biological Sciences Centre.

9 February, noon

Stan Boutin, "The NCE for Sustainable Forestry." G-208 Biological Sciences Centre.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

15 February, 3:30 pm

Myroslav Shkandrij, professor, German and Slavic Studies, University of Manitoba, "Medievalizing the Modern: Mykhailo Boichuk's School of Monumental Art, 1908-1936. Problems of Assessment." 352 Athabasca Hall.

CENTRE FOR INTERNATIONAL BUSINESS STUDIES

8 February, 3:30 pm

John Hancock, senior policy advisor to the Minister of International Trade, Ottawa, "Managing the US Trade Relationship: Bilateralism, Regionalism, Multilateralism, or What?" 1-09 Business Building. No cost, please RSVP: 492-2235.

COMPUTING SCIENCE

12 February, 3:30 pm

Richard B Bunt, Department of Computer Science, University of Saskatchewan, "Cache Management in Distributed File Systems." 112 V-Wing.

ECO-RESEARCH CHAIR IN ENVIRONMENTAL RISK MANAGEMENT

2 February, 3 pm

Rein Otson, Bureau of Chemical Hazards, Health Canada, "Comparison of Human Exposure to Organic Pollutants in Air, Food and Water." 2F1.04 (Classroom D), Mackenzie Health Sciences Centre.

EDMUND KEMPER BROADUS LECTURES

Chris Bullock will present the following lectures, entitled "Men in the Nineties: Life Issues in Literature."

30 January, 3:30 pm

"Violence and the Warrior."

L-1 Humanities Centre.

1 February, 3:30 pm

"Men and Depression." L-1 Humanities Centre.

6 February, 3:30 pm

"The Men's Movement, Robert Bly and Feminist Critique." L-1 Humanities Centre.

FRIENDS OF THE UNIVERSITY OF ALBERTA MUSEUMS

28 January, 2:30 pm

Randall J Bayer, "A Visit to the Vascular Plant Herbarium." Everyone is welcome. No charge. B-613 (6th Floor Botany Wing), Biological Sciences Building.

PHARMACOLOGY

29 January, 4 pm

Sylvain Foucart, Department of Physiology, University of Montreal, "Modulation of Noradrenaline Release from Cardiac Tissue in Human and Mice." 207 Heritage Medical Research Centre.

PHILOSOPHY

8 February, 3:30 pm

Thomas Hurka, Department of Philosophy, University of Calgary, "The Moral Justification of Nationalism." 4-29 Tory Building.

RESEARCH SEMINARS IN EARLY WOMEN

30 January, 12:30 pm

Jennifer Jay, "Imagining Matriarchy: Kingdoms of Women in East Asia." Senate Chamber, Arts Building.

RENEWABLE RESOURCES

1 February, 12:30 pm

Jerome Martin, "WIRED: Teaching and Learning on the Information Highway." 2-36 Earth Sciences Building.

8 February, 12:30 pm

Ian Campbell, research scientist, Canadian Forest Service, "Pine Lake, Alberta: Pollen, Tree-Rings, Climate, and Human Impacts." 2-36 Earth Sciences Building.

15 February, 12:30 pm

C Schweger, "The Vikings of North Atlantic: Extinction and Sustainability." 2-36 Earth Sciences Building.

SOCIETY OF EDMONTON DEMOGRAPHERS

31 January, noon

Karol Krotki, "Demography of German-, Polish-, and Ukrainian-Canadians in Alberta Compared." Heritage Room, City Hall.

SOCIOLOGY

12 February, noon

F Trovato and NM Lalu, "What is Happening to the Male/Female Gap in Life Expectancy in the Industrialized World?" 5-15 Tory Building.

14 February, noon

Susan McDaniel, "Toward a Synthesis of Feminist and Demographic Perspectives on Fertility." 5-15 Tory Building.

UNIVERSITY TEACHING SERVICES

5 February, 3 pm

M Anne Naeth, "Leading Discussions." 273 CAB.

6 February, 3:30 pm

Sandy Rennie, "Creating a Win-Win Situation in the Classroom Through Peer Consultation." 219 CAB.

7 February, 3:30 pm

Rob Lake, "Creating Home Pages—An Introduction." 112 V-Wing.

8 February, 4 pm

David Cass, "My Approaches to Heterogeneous Science Classes." CW-410 Biological Sciences Centre.

AWARD OPPORTUNITIES

VISITING LECTURESHIP IN CANADIAN STUDIES

The Shastri Indo-Canadian Institute invites applications/nominations for a Visiting Lectureship in Canadian Studies tenable in India during the academic year 1996-97. The award includes the cost of international air travel and of travel and living expenses in India. The preferred period of tenure is three weeks in January and February 1997.

For the current year, applications are invited in either of the following two areas: Art History/ Fine Arts/Musicology and Sociology/Anthropology.

Applications should include a curriculum vitae, a covering letter indicating expertise, experience and general suitability, a list of indicative lecture topics, and proof of citizenship or permanent resident status. The deadline for receipt (not date of post-mark) of complete applications at the address given below is 29 February 1996.

Applicants should expect to hear from the Institute's Head Office by 30 April 1996.

Mailing address: Executive Director, Shastri Indo-Canadian Institute, Room 1402, Education Tower, 2500 University Drive N.W., Calgary, Alberta T2N 1N4

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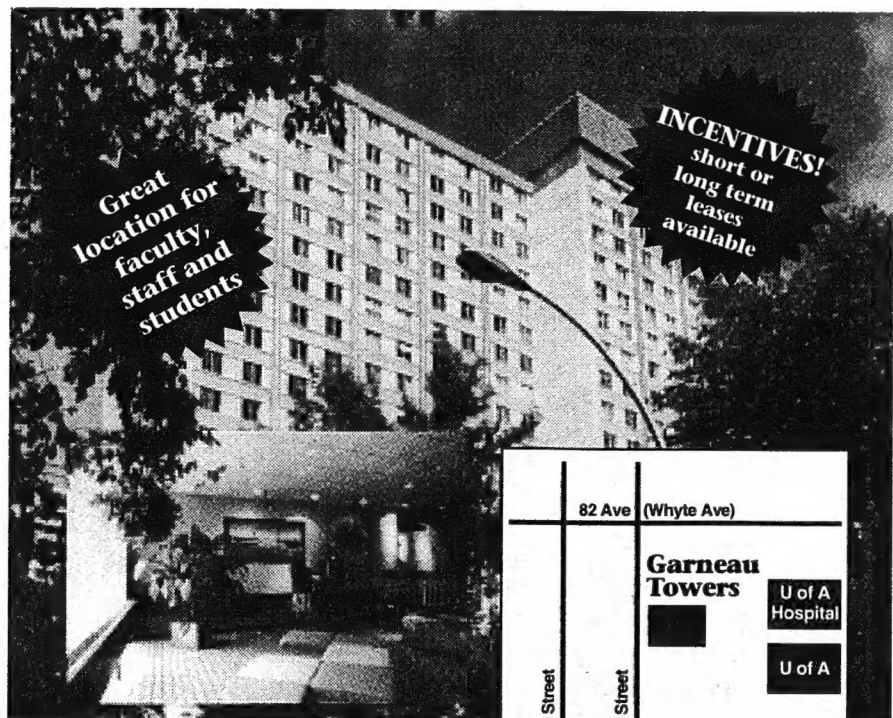
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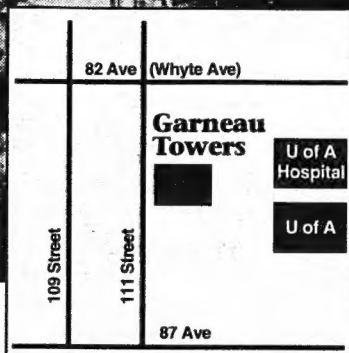
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EVENTS

EXHIBITIONS

EXTENSION CENTRE GALLERY

Until 16 February

"Students' Work - Summer 1995"—an exhibition of works by Faculty of Extension students. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 9 am to noon. Information: 492-3034. 2-54 University Extension Centre.

MUSIC

26 January, 8 pm

Music at Convocation Hall Series featuring the TriBACH Concert with Jane Coop, piano, and Andrew Dawes, violin. Program will include sonatas for violin and piano by Beethoven. Admission: \$10/adult, \$5/student/senior. Convocation Hall.

27 January, 10 am

TriBACH Piano Masterclass with Jane Coop. Convocation Hall.

27 January, 10 am

TriBACH Violin Masterclass with Andrew Dawes. 1-29 Fine Arts Building.

31 January, noon

Noon-Hour Organ Recital featuring Bach's *Orgelbüchlein* (23 of the 46 chorales). Performers are University of Alberta students. Convocation Hall.

5 February, noon

Music at Noon, Convocation Hall Student Recital Series featuring students of the Department of Music. Convocation Hall.

9 and 10 February, 8 pm

Opera Scenes. Alan Ord, director. Scenes from operas by Menotti, Mozart, Offenbach and Rossini. Admission: \$5/adult, \$3/student/senior. Convocation Hall.

10 February, 7 pm

Gospel Hour. National Black Coalition of Canada-Edmonton. For further information on Black History Month, call 451-8000. General admission: \$8.50 at Ticketmaster. Jubilee Auditorium.

11 February, 8 pm

Visiting Artist Recital: Neil Gripp, viola, with Stéphane Lemelin (faculty), piano. Program will include works by Hindemith, Shostakovich and Brahms. Admission: \$10/adult, \$5/student/senior. Convocation Hall.



POSITIONS

The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

ACADEMIC STAFF

ADMINISTRATIVE PROFESSIONAL OFFICER (FORESTER), DEPARTMENT OF RENEWABLE RESOURCES

The Department of Renewable Resources has a position for an individual capable of leading an efficient support group to facilitate the teaching, research, and extension functions of the Department, and functioning as a first line of communication with students at each stage from inquiry through to graduation.

Responsibilities include:

- Selection, supervision and coordination of clerical and technical support staff;
- Director of Forestry Field Camps;
- Student advising for inquiries, admissions, transfer credit, core program, revisions and graduation;
- Capital and Operating Budget preparation and control;
- Space and Capital Renovations coordination;
- Inventory and Capital Equipment control;
- Projects as assigned, including coordination of Forest Industry Lecture Series, compilation of Annual Report, job placement coordination, etc;
- Professional and Executive Assistance to Chair and Associate Chair;
- Liaison with other University departments and outside agencies and industry.

We are looking for a competent and dedicated professional to fill this challenging and rewarding position. The ideal candidate would have a BSc in Forestry and an MBA or equivalent. Candidates with a BSc in Forestry or equivalent and an interest and aptitude for administrative work are encouraged to apply. The incumbent must enjoy working closely with students and must be capable of communicating well with individuals at all levels of various organizations. This position requires an individual with intelligence and initiative and who is highly organized and exhibits a high level of tact and diplomacy. The position is available immediately.

Salary range: \$36,160 to \$54,244 per year.

SELECTION COMMITTEE FOR DIRECTOR, SCHOOL OF LIBRARY AND INFORMATION STUDIES

A Selection Committee has begun its search for a Director of the School of Library and Information Studies. The appointment will take effect 1 July 1996 or as soon as possible thereafter. The search is internal to the University of Alberta. Suggestions of possible candidates and assessments of the leadership needs of the School are invited.

The successful candidate for Director should have an outstanding research record and possess excellent leadership qualities. Nominations or applications for the position, accompanied in the latter case by a detailed résumé of qualifications and experience, and the names of three references, should be submitted by 1 March 1996 to: Dr HW Zingle, Dean, Faculty of Education, University of Alberta, 845 Education South.

SUPPORT STAFF

To obtain information on support staff positions, please contact Human Resource Group, 2-40 Assiniboia Hall. You can also call the Job Information line at 492-7205 (24 hours) or consult the weekly *Employment Opportunities Bulletin*.



ADVERTISEMENTS

ACCOMMODATIONS FOR RENT

\$225/ROOM/MONTH, 109 Street 74 Avenue. 433-5674.

BELGRAVIA, SUNNY SPACIOUS three bedroom bungalow, 1 February, one year lease. Fenced yard, garage. \$1,000 month. Western Relocation Services Ltd. 434-4629.

UNIVERSITY AVENUE - Two storey three bedroom with wonderful space, character and charm throughout. Partially furnished. \$1,000, immediate lease. Designated heritage property. Western Relocation Services Ltd. 434-4629.

HAWAII CONDOMINIUM for rent, 10-25 February, Princeville, Kauai. Call Julia, 434-8003.

TOTALLY FURNISHED three bedroom home close to campus for let 1996-97 academic year, 451-0450.

NOW THROUGH MAY, one bedroom condo, close to University, river view. \$550 includes utilities and parking. Pool and fitness centre, 433-6130.

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OLIVER, LUXURIOUS CONDOMINIUM with spectacular river valley view. One bedroom, dining/den, sunroom, underground parking. 1,011 square feet. Nonsmokers. \$995 plus utilities. 454-2125.

SHARE, THREE-BEDROOM bungalow, Duggan area. On major bus route. Hot tub. Rob, Spence, 437-2289, 451-0022.

WANTED GRAD STUDENTS - beautifully furnished basement suite suitable for couple. Also: private bed and bath for single on second floor of luxurious quiet home, 10725 72 Avenue, 431-0726.

LEWIS ESTATES, FOUR BEDROOM SPLIT LEVEL, three bathrooms. Almost new, excellent condition, fully landscaped with large deck, double garage, five appliances. Minutes to golf course, seven minutes to West Edmonton Mall. Available 1 March. \$1,100. 486-3183.

NEW BASEMENT ACCOMMODATION available immediately, \$200. 438-4816.

SUNLIT THREE BEDROOM HOME, near campus, Old Strathcona, furnished, nonsmoking, to let from 1 July for 13 months. \$710 plus utilities. 433-2710.

UNIQUE TWO BEDROOM Belgravia basement suite available now. Walking distance to University. Parking, washing facilities, utilities included. Separate entrance. Nonsmoking. Rent \$500 per month. 434-7338.

FULLY FURNISHED THREE BEDROOM BUNGALOW, Royal Gardens, \$850/month. Available until August. Nonsmoking, no pets. 492-0845 (Linda); 435-6749 (Steve).

HOUSE, McKERNAN, 11215 79 AVENUE, three bedroom, many renovations. South backyard, includes five appliances, available 1 March. 437-7004.

SABBATICAL HOUSE FOR 1996-97, fully furnished, 10-minute drive. 492-6703.

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VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (604) 383-7100, Lois Dutton, Duttons & Co. Ltd. #101-364 Moss Street, Victoria B.C. V8V 4N1

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WINDSOR PARK, RENOVATED two storey four bedroom, den, family room with fireplace, formal living room and dining room, warm gracious feeling throughout. \$299,000. Janet Jenner Fraser/Gordon King, Spencer Real Estate, 483-7170.

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ROSSDALE CONDO, TWO STOREY, two bedroom, executive living with attached garage. Jacuzzi, ensuite, fireplace in living room, patio, garden faces east, five-minute walk to downtown. Janet Jenner Fraser/Gordon King, Spencer Real Estate, 483-7170.

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GRANDVIEW - \$149,900. Great location. Quiet street. Four bedrooms. Walk-out basement. Home or investment. Owner transferred. Immediate possession. Chris Tenove, Spencer, 483-7170.

CONDOMINIUM, 11178 83 AVENUE, two bedroom plus den; underground heated parking; fireplace, walk five minutes to hospital or campus. Own or lease, 431-2852.

RIVERBEND, CONTEMPORARY FAMILY HOME, three bedrooms plus den. South-facing backyard situated on quiet street, one block from ravine and neighbourhood park. Ann Dawrant, Spencer Realty, 940-6485.

SASK DRIVE LUXURY CONDO in prestigious building, spectacular river view. Approximately 1,600', one bedroom, two baths. Neutral decor, seven appliances, drapes. \$178,000. Some furniture negotiable. By owner. 924-2221 or 434-6393, evenings.

ACCOMMODATION WANTED

McMASTER UNIVERSITY PROFESSOR, SPOUSE, and three children seeking home near University for research leave 1 August 1996 -

1 August 1997. Bob Henderson, 2 Helen Street, Dundas, Ontario L9H 1N3, 905-525-9140 ext 23573.

VISITING PROFESSOR AND FAMILY (two boys, 7 and 4 years) from Japan seek furnished accommodation from April 1996 for 10 months. Nonsmokers. Close to campus or south side preferred. Contact Birgitta Smith, 492-2235.

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PDQ WORDPROCESSING, 438-8287, 11418 79 Avenue, 24-hour service, close to campus, laser printing, graphics, charts, tables. Term papers, theses, résumés, real nice lady, \$2 per double-spaced page, professional editor. Also available: rent time on PC WordPerfect or Microsoft.

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The next *Alberta Survey* is scheduled for March, and prospective questions should be submitted by February 15th. Call the PRL director, Jonathan Murphy, at 492-4659 or fax us at 492-2589.